



## 10. DESCRIPTION OF REVISION - CONTINUED

Document No.: 5962-89535  
Revision: B  
NOR No.: 5962-R225-92  
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Case outlines	K and L	3
Terminal number	Terminal symbol	
1	T/ $\bar{R}$	NC
2	A <sub>0</sub>	A <sub>5</sub>
3	A <sub>1</sub>	A <sub>6</sub>
4	A <sub>2</sub>	A <sub>7</sub>
5	A <sub>3</sub>	ODD/EVEN
6	A <sub>4</sub>	ERROR
7	V <sub>CC</sub>	PARITY
8	A <sub>5</sub>	NC
9	A <sub>6</sub>	B <sub>7</sub>
10	A <sub>7</sub>	B <sub>6</sub>
11	ODD/EVEN	B <sub>5</sub>
12	ERROR	B <sub>4</sub>
13	PARITY	GND
14	B <sub>7</sub>	GND
15	B <sub>6</sub>	NC
16	B <sub>5</sub>	B <sub>3</sub>
17	B <sub>4</sub>	B <sub>2</sub>
18	GND	B <sub>1</sub>
19	GND	B <sub>0</sub>
20	B <sub>3</sub>	$\bar{O}\bar{E}$
21	B <sub>2</sub>	T/ $\bar{R}$
22	B <sub>1</sub>	NC
23	B <sub>0</sub>	A <sub>0</sub>
24	$\bar{O}\bar{E}$	A <sub>1</sub>
25	---	A <sub>2</sub>
26	---	A <sub>3</sub>
27	---	A <sub>4</sub>
28	---	V <sub>CC</sub>

NC = No connection



## 1. SCOPE

1.1 Scope. This drawing describes device requirements for class B microcircuits in accordance with 1.2.1 of MIL-STD-883, "Provisions for the use of MIL-STD-883 in conjunction with compliant non-JAN devices".

1.2 Part number. The complete part number shall be as shown in the following example:

5962-89535	01	K	X
Drawing number (1.2.1)	Device type (1.2.2)	Case outline	Lead finish per MIL-M-38510

1.2.1 Device type. The device type shall identify the circuit function as follows:

Device type	Generic number	Circuit function
01	54F657	Octal bidirectional transceiver with 8-bit parity generator/checker and three state outputs

1.2.2 Case outline. The case outline shall be as designated in appendix C of MIL-M-38510, and as follows:

Outline letter	Case outline
K	F-6 (24-lead, .640" x .420" x .090"), flat package
L	D-9 (24-lead, 1.280" x .310" x .200"), dual-in-line package
3	C-4 (28-terminal, .460" x .460" x .100"), square chip carrier package

1.3 Absolute maximum ratings. 1/

Supply voltage range -----	-0.5 V dc minimum to +7.0 V dc maximum
DC input voltage range -----	-0.5 V dc minimum to +7.0 V dc maximum
DC input current range -----	-30 mA minimum to +5.0 mA maximum
Voltage applied to output in high output state - - - - -	-0.5 V dc to +5.5 V
Current applied to output in low output state:	
A <sub>0</sub> - A <sub>7</sub> -----	40 mA
B <sub>0</sub> - B <sub>7</sub> , PARITY, ERROR -----	96 mA
Storage temperature range -----	-65° C to +150° C
Maximum power dissipation (P <sub>D</sub> ) 2/ -----	1.15 W
Lead temperature (soldering, 10 seconds) -----	+260° C
Thermal resistance, junction-to-case (Θ <sub>JC</sub> ) - - - - -	See MIL-M-38510, appendix C
Junction temperature (T <sub>J</sub> ) -----	+175° C

1.4 Recommended operating conditions.

Supply voltage range (V <sub>CC</sub> ) -----	+4.5 V dc to +5.5 V dc
Maximum input clamp current (I <sub>IC</sub> ) -----	-18 mA
Minimum high level input voltage (V <sub>IH</sub> ) -----	2.0 V dc
Maximum low level input voltage (V <sub>IL</sub> ) -----	0.8 V dc
Case operating temperature range (T <sub>C</sub> ) -----	-55° C to +125° C

1/ Unless otherwise specified, all voltages are referenced to ground.

2/ Must withstand the added P<sub>D</sub> due to short-circuit test, e.g., I<sub>OS</sub>.

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## 2. APPLICABLE DOCUMENTS

2.1 Government specification, standard, and bulletin. Unless otherwise specified, the following specification, standard, and bulletin of the issue listed in that issue of the Department of Defense Index of Specifications and Standards specified in the solicitation, form a part of this drawing to the extent specified herein.

### SPECIFICATION

#### MILITARY

MIL-M-38510 - Microcircuits, General Specification for

### STANDARD

#### MILITARY

MIL-STD-883 - Test Methods and Procedures for Microelectronics

### BULLETIN

#### MILITARY

MIL-BUL-103 - List of Standardized Military drawings (SMD's).

(Copies of the specification, standard, and bulletin required by manufacturers in connection with specific acquisition functions should be obtained from the contracting activity or as directed by the contracting activity.)

2.2 Order of precedence. In the event of a conflict between the text of this drawing and the references cited herein, the text of this drawing shall take precedence.

## 3. REQUIREMENTS

3.1 Item requirements. The individual item requirements shall be in accordance with 1.2.1 of MIL-STD-883, "Provisions for the use of MIL-STD-883 in conjunction with compliant non-JAN devices" and as specified herein.

3.2 Design, construction, and physical dimensions. The design, construction, and physical dimensions shall be as specified in MIL-M-38510 and herein.

3.2.1 Terminal connections. The terminal connections shall be as specified on figure 1.

3.2.2 Truth table. The truth table shall be as specified on figure 2.

3.2.3 Test circuit and switching waveforms. The test circuit and switching waveforms shall be as specified on figure 3.

3.2.4 Case outline(s). The case outline(s) shall be in accordance with 1.2.2 herein.

3.3 Electrical performance characteristics. Unless otherwise specified herein, the electrical performance characteristics are as specified in table I and shall apply over the full case operating temperature range.

3.4 Electrical test requirements. The electrical test requirements shall be the subgroups specified in table II. The electrical tests for each subgroup are described in table I.

3.5 Marking. Marking shall be in accordance with MIL-STD-883 (see 3.1 herein). The part shall be marked with the PIN listed in 1.2 herein. In addition, the manufacturer's PART NUMBER may also be marked as listed in MIL-BUL-103 (see 6.6 herein).

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3.6 Certificate of compliance. A certificate of compliance shall be required from a manufacturer in order to be listed as an approved source of supply in MIL-BUL-103 (see 6.6 herein). The certificate of compliance submitted to DESC-ECC prior to listing as an approved source of supply shall affirm that the manufacturer's product meets the requirements of MIL-STD-883 (see 3.1 herein) and the requirements herein.

3.7 Certificate of conformance. A certificate of conformance as required in MIL-STD-883 (see 3.1 herein) shall be provided with each lot of microcircuits delivered to this drawing.

3.8 Notification of change. Notification of change to DESC-ECC shall be required in accordance with MIL-STD-883 (see 3.1 herein).

3.9 Verification and review. DESC, DESC's agent, and the acquiring activity retain the option to review the manufacturer's facility and applicable required documentation. Offshore documentation shall be made available onshore at the option of the reviewer.

#### 4. QUALITY ASSURANCE PROVISIONS

4.1 Sampling and inspection. Sampling and inspection procedures shall be in accordance with section 4 of MIL-M-38510 to the extent specified in MIL-STD-883 (see 3.1 herein).

4.2 Screening. Screening shall be in accordance with method 5004 of MIL-STD-883, and shall be conducted on all devices prior to quality conformance inspection. The following additional criteria shall apply:

a. Burn-in test, method 1015 of MIL-STD-883.

(1) Test condition A, B, C, or D using the circuit submitted with the certificate of compliance (see 3.6 herein).

(2)  $T_A = +125^\circ\text{C}$ , minimum.

b. Interim and final electrical test parameters shall be as specified in table II herein, except interim electrical parameter tests prior to burn-in are optional at the discretion of the manufacturer.

4.3 Quality conformance inspection. Quality conformance inspection shall be in accordance with method 5005 of MIL-STD-883 including groups A, B, C, and D inspections. The following additional criteria shall apply.

##### 4.3.1 Group A inspection.

a. Tests shall be as specified in table II herein.

b. Subgroups 4, 5, and 6 in table I, method 5005 of MIL-STD-883 shall be omitted.

c. Subgroups 7 and 8 tests shall include verification of the truth table.

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TABLE I. Electrical performance characteristics.

Test		Symbol	Conditions -55°C ≤ T <sub>C</sub> ≤ +125°C unless otherwise specified		Group A subgroups	Limits		Unit
						Min	Max	
High level output	All outputs	V <sub>OH</sub>	V <sub>CC</sub> = 4.5 V, V <sub>IL</sub> = 0.8 V, V <sub>IH</sub> = 2.0 V	I <sub>OH</sub> = -2.0 mA	1, 2, 3	2.4		V
	I <sub>OH</sub> = -1.0 mA			2.5				
	B <sub>0</sub> - B <sub>7</sub> , PARITY, ERROR			I <sub>OH</sub> = -12 mA		2.0		
Low level output voltage	A <sub>0</sub> - A <sub>7</sub>	V <sub>OL</sub>	V <sub>CC</sub> = 4.5 V, V <sub>IL</sub> = 0.8 V, V <sub>IH</sub> = 2.0 V	I <sub>OH</sub> = 20 mA	1, 2, 3		0.50	V
	B <sub>0</sub> - B <sub>7</sub> , PARITY, ERROR			I <sub>OH</sub> = 48 mA			0.55	
Input clamp voltage		V <sub>IK</sub>	V <sub>CC</sub> = 4.5 V, I <sub>IK</sub> = -18 mA		1, 2, 3		-1.2	V
High level input current	EVEN/ODD	I <sub>IH</sub>	V <sub>CC</sub> = 5.5 V	V <sub>IN</sub> = 2.7 V	1, 2, 3		20	μA
	T/R, OE						40	
	A <sub>0</sub> - A <sub>7</sub>			V <sub>IN</sub> = 5.5 V			2.0	mA
	B <sub>0</sub> - B <sub>7</sub>					1.0		
	T/R, OE, EVEN/ODD		V <sub>CC</sub> = 0.0 V	V <sub>IN</sub> = 7.0 V			100	μA
Low level input current	EVEN/ODD	I <sub>IL</sub>	V <sub>CC</sub> = 5.5 V, V <sub>IN</sub> = 0.5 V		1, 2, 3		-20	μA
	T/R, OE						-40	

See footnotes at end of table.

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TABLE I. Electrical performance characteristics - Continued.

Test		Symbol	Conditions -55°C ≤ T <sub>C</sub> ≤ +125°C unless otherwise specified		Group A subgroups	Limits		Unit
						Min	Max	
Off-state output high current	A <sub>0</sub> - A <sub>7</sub>	I <sub>OZH</sub>	V <sub>CC</sub> = 5.5 V, V <sub>IH</sub> = 2.0 V, V <sub>OUT</sub> = 2.7 V	1, 2, 3			100	μA
	B <sub>0</sub> - B <sub>7</sub> ,						70	
	PARITY							
	ERROR						50	
Off-state output low current	A <sub>0</sub> - A <sub>7</sub>	I <sub>OZL</sub>	V <sub>CC</sub> = 5.5 V, V <sub>IH</sub> = 2.0 V, V <sub>OUT</sub> = 0.5 V	1, 2, 3			-100	μA
	B <sub>0</sub> - B <sub>7</sub> ,						-70	
	PARITY							
	ERROR						-50	
Output short- circuit current	A <sub>0</sub> - A <sub>7</sub>	I <sub>OS</sub>	V <sub>CC</sub> = 5.5 V  1/	1, 2, 3		-60	-150	mA
	B <sub>0</sub> - B <sub>7</sub>					-100	-225	
Supply current		I <sub>CCH</sub>	V <sub>CC</sub> = 5.5 V	1, 2, 3			125	mA
		I <sub>CCL</sub>					150	
		I <sub>CCZ</sub>					145	
Functional testing			See 4.3.1c	7,8				
Propagation delay time, A <sub>n</sub> to B <sub>n</sub> , B <sub>n</sub> to A <sub>n</sub>		t <sub>PLH1</sub>	C <sub>L</sub> = 50 pF, R <sub>L</sub> = 500Ω, See figure 3	V <sub>CC</sub> = 5.0 V	9	2.5	8.0	ns
				V <sub>CC</sub> = 4.5 V to 5.5 V	10,11	2.5	9.5	

See footnotes at end of table.

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TABLE I. Electrical performance characteristics - Continued.

Test	Symbol	Conditions -55°C ≤ T <sub>C</sub> ≤ +125°C unless otherwise specified		Group A subgroups	Limits		Unit
					Min	Max	
Propagation delay time, A <sub>n</sub> to B <sub>n</sub> , B <sub>n</sub> to A <sub>n</sub>	t <sub>PHL1</sub>	C <sub>L</sub> = 50 pF, R <sub>L</sub> = 500Ω,  See figure 3	V <sub>CC</sub> = 5.0 V	9	3.0	7.5	ns
			V <sub>CC</sub> = 4.5 V to 5.5 V	10,11	3.0	8.5	
Propagation delay time, A <sub>n</sub> to PARITY	t <sub>PLH2</sub>		V <sub>CC</sub> = 5.0 V	9	6.5	14.5	ns
			V <sub>CC</sub> = 4.5 V to 5.5 V	10,11	5.5	18.0	
	t <sub>PHL2</sub>		V <sub>CC</sub> = 5.0 V	9	6.5	15.5	
			V <sub>CC</sub> = 4.5 V to 5.5 V	10,11	5.5	20.5	
Propagation delay time, EVEN/ODD to PARITY ERROR	t <sub>PLH3</sub>		V <sub>CC</sub> = 5.0 V	9	4.5	11.5	ns
			V <sub>CC</sub> = 4.5 V to 5.5 V	10,11	4.0	14.0	
	t <sub>PHL3</sub>		V <sub>CC</sub> = 5.0 V	9	4.5	12.5	
			V <sub>CC</sub> = 4.5 V to 5.5 V	10,11	4.0	16.5	
Propagation delay time, B <sub>n</sub> to ERROR	t <sub>PLH4</sub>		V <sub>CC</sub> = 5.0 V	9	8.0	21.5	ns
			V <sub>CC</sub> = 4.5 V to 5.5 V	10,11	7.0	26.0	
	t <sub>PHL4</sub>		V <sub>CC</sub> = 5.0 V	9	8.0	22.5	
			V <sub>CC</sub> = 4.5 V to 5.5 V	10,11	7.0	28.0	

See footnotes at end of table.

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TABLE I. Electrical performance characteristics - Continued.

Test	Symbol	Conditions -55°C ≤ T <sub>C</sub> ≤ +125°C unless otherwise specified		Group A subgroups	Limits		Unit
					Min	Max	
Propagation delay time, PARITY to $\overline{\text{ERROR}}$	t <sub>PLH5</sub>	C <sub>L</sub> = 50 pF, R <sub>L</sub> = 500Ω,  See figure 3	V <sub>CC</sub> = 5.0 V	9	6.5	16.0	ns
			V <sub>CC</sub> = 4.5 V to 5.5 V	10,11	6.0	20.0	
	t <sub>PHL5</sub>		V <sub>CC</sub> = 5.0 V	9	7.5	17.0	
	V <sub>CC</sub> = 4.5 V to 5.5 V		10,11	6.5	21.5		
Output enable time, $\overline{\text{OE}}$ to A <sub>n</sub> , B <sub>n</sub> , PARITY, $\overline{\text{ERROR}}$	t <sub>PZH</sub>		V <sub>CC</sub> = 5.0 V	9	3.0	8.0	ns
			V <sub>CC</sub> = 4.5 V to 5.5 V	10,11	2.5	11.0	
	t <sub>PZL</sub>		V <sub>CC</sub> = 5.0 V	9	4.0	10.0	
			V <sub>CC</sub> = 4.5 V to 5.5 V	10,11	3.5	13.5	
Output disable time, $\overline{\text{OE}}$ to A <sub>n</sub> , B <sub>n</sub> , PARITY, $\overline{\text{ERROR}}$	t <sub>PHZ</sub>	V <sub>CC</sub> = 5.0 V	9	1.0	8.0	ns	
		V <sub>CC</sub> = 4.5 V to 5.5 V	10,11	1.0	9.5		
	t <sub>PLZ</sub>	V <sub>CC</sub> = 5.0 V	9	1.0	7.5		
		V <sub>CC</sub> = 4.5 V to 5.5 V	10,11	1.0	8.5		

1/ Not more than one output should be shorted at a time and the duration of the short circuit conditions shall not exceed one second.

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Case outlines	K and L	3
Terminal number	Terminal symbol	Terminal symbol
1	T/R	NC
2	A <sub>0</sub>	T/ $\overline{R}$
3	A <sub>1</sub>	A <sub>0</sub>
4	A <sub>2</sub>	A <sub>1</sub>
5	A <sub>3</sub>	A <sub>2</sub>
6	A <sub>4</sub>	A <sub>3</sub>
7	V <sub>CC</sub>	A <sub>4</sub>
8	A <sub>5</sub>	NC
9	A <sub>6</sub>	V <sub>CC</sub>
10	A <sub>7</sub>	A <sub>5</sub>
11	ODD/ $\overline{\text{EVEN}}$	A <sub>6</sub>
12	$\overline{\text{ERROR}}$	A <sub>7</sub>
13	PARITY	ODD/ $\overline{\text{EVEN}}$
14	B <sub>7</sub>	$\overline{\text{ERROR}}$
15	B <sub>6</sub>	NC
16	B <sub>5</sub>	PARITY
17	B <sub>4</sub>	B <sub>7</sub>
18	GND	B <sub>6</sub>
19	GND	B <sub>5</sub>
20	B <sub>3</sub>	B <sub>4</sub>
21	B <sub>2</sub>	GND
22	B <sub>1</sub>	NC
23	B <sub>0</sub>	GND
24	$\overline{\text{OE}}$	B <sub>3</sub>
25	---	B <sub>2</sub>
26	---	B <sub>1</sub>
27	---	B <sub>0</sub>
28	---	$\overline{\text{OE}}$

FIGURE 1. Terminal connections.

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Number of inputs that are high	Inputs			Input/output	Outputs	
	$\overline{OE}$	T/ $\overline{R}$	ODD/EVEN	PARITY	$\overline{ERROR}$	Outputs mode
0, 2, 4, 6, 8	L	H	H	H	Z	Transmit
	L	H	L	L	Z	Transmit
	L	L	H	H	H	Receive
	L	L	H	L	L	Receive
	L	L	L	H	L	Receive
	L	L	L	L	H	Receive
1, 3, 5, 7	L	H	H	L	Z	Transmit
	L	H	L	H	Z	Transmit
	L	L	H	H	L	Receive
	L	L	H	L	H	Receive
	L	L	L	H	H	Receive
	L	L	L	L	L	Receive
Irrelevant	H	X	X	Z	Z	Z

H = High voltage level  
 L = Low boltage level  
 X = Irrelevant  
 Z = High impedance state

FIGURE 2. Truth table.

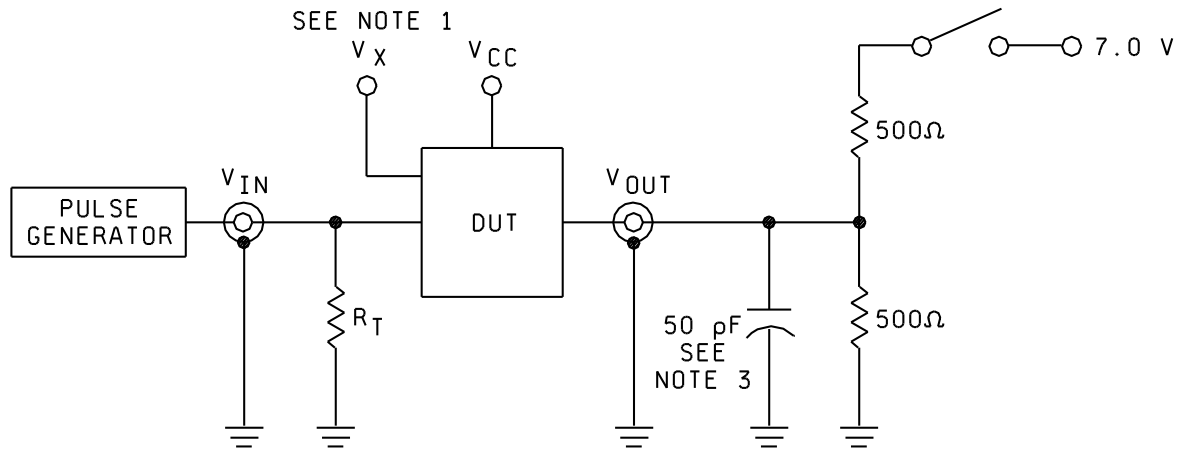
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Test	Switch position
$t_{PLZ}$	Closed
$t_{PZL}$	Closed
All others	Open

NOTES:

1.  $V_X$  = Unused pins must be held at  $\leq 0.8$  V,  $\geq 2.7$  V or open.
2. All input pulses have the following characteristics:  
PRR = 1.0 Mhz, pulse width = 500 ns, duty cycle = 50%,  $t_r = t_f \leq 2.5$  ns.
3.  $C_L$  includes jig and probe capacitance.
4.  $R_T$  = Termination resistance and should be equal to  $Z_{OUT}$  of the pulse generators.

FIGURE 3. Test circuit and switching waveforms.

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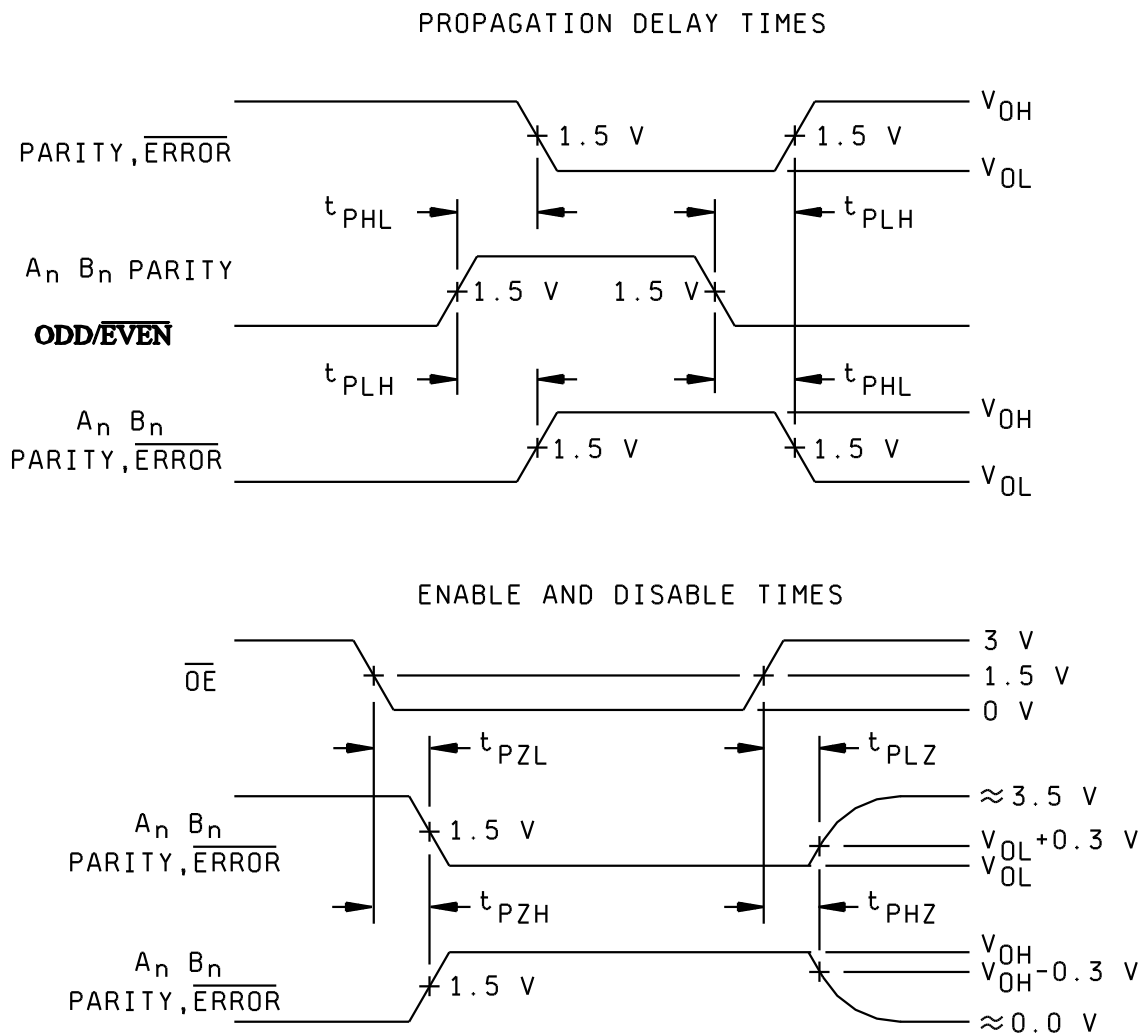


FIGURE 3. Test circuit and switching waveforms - Continued.

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TABLE II. Electrical test requirements.

MIL-STD-883 test requirements	Subgroups (per method 5005, table I)
Interim electrical parameters (method 5004)	---
Final electrical test parameters (method 5004)	1*, 2, 3, 7, 8, 9
Group A test requirements (method 5005)	1, 2, 3, 7, 8, 9, 10, 11
Groups C and D end-point electrical parameters (method 5005)	1, 2, 3

\* PDA applies to subgroup 1.

#### 4.3.2 Groups C and D inspections.

- a. End-point electrical parameters shall be as specified in table II herein.
- b. Steady-state life test conditions, method 1005 of MIL-STD-883.
  - (1) Test condition A, B, C, or D using the circuit submitted with the certificate of compliance (see 3.6 herein).
  - (2)  $T_A = +125^\circ\text{C}$ , minimum.
  - (3) Test duration: 1,000 hours, except as permitted by method 1005 of MIL-STD-883.

#### 5. PACKAGING

5.1 Packaging requirements. The requirements for packaging shall be in accordance with MIL-M-38510.

#### 6. NOTES

6.1 Intended use. Microcircuits conforming to this drawing are intended for use when military specifications do not exist and qualified military devices that will perform the required function are not available for OEM application. When a military specification exists and the product covered by this drawing has been qualified for listing on QPL-38510, the device specified herein will be inactivated and will not be used for new design. The QPL-38510 product shall be the preferred item for all applications.

6.2 Replaceability. Microcircuits covered by this drawing will replace the same generic device covered by a contractor-prepared specification or drawing.

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6.3 Configuration control of SMD's. All proposed changes to existing SMD's will be coordinated with the users of record for the individual documents. This coordination will be accomplished in accordance with MIL-STD-481 using DD form 1693, Engineering change Proposal (Short Form).

6.4 Record of users. Military and industrial users shall inform Defense Electronics Supply Center when a system application requires configuration control and the applicable SMD. DESC will maintain a record of users and this list will be used for coordination and distribution of changes to the drawings. Users of drawings covering microelectronics devices (FSC 5962) should contact DESC-ECC telephone (513) 296-6022.

6.5 Comments. Comments on this drawing should be directed to DESC-ECC, Dayton, Ohio 45444, or telephone 513-296-8525.

6.6 Approved sources of supply. Approved sources of supply are listed in MIL-BUL-103. Additional sources will be added to MIL-BUL-103 as they become available. The vendors listed in MIL-BUL-103 have agreed to this drawing and a certificate of compliance (see 3.6 herein) has been submitted to and accepted by DESC-ECC. The approved sources of supply listed below are for information purposes only and are current only to the date of the last action of this document.

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## STANDARDIZED MILITARY DRAWING SOURCE APPROVAL BULLETIN

DATE: 6 NOV 1990

Approved sources of supply for SMD 5962-89535 are listed below for immediate acquisition only and shall be added to MIL-BUL-103 during the next revision. MIL-BUL-103 will be revised to include the addition or deletion of sources. The vendors listed below have agreed to this drawing and a certificate of compliance has been submitted to and accepted by DESC-EC. This bulletin is superseded by the next dated revision of MIL-BUL-103.

Military drawing part number	Vendor CAGE number	Vendor 1/ similar part number
5962-8953501KX	18324	54F657/BKA
5962-8953501KX	18324 27014	54F657/BLA 54F657SDMQB
5962-8953501KX	18324	54F657/B3A

1/ Caution. Do not use this number for item acquisition. Items acquired by this number may not satisfy the performance requirements of this drawing.

Vendor CAGE  
number

Vendor name  
and address

18324

Signetics Corporation  
1275 South 800 East Street  
Orem, UT 84058  
Point of contact: 811 East Arques Avenue  
Sunnyvale, Ca

27014

National Semiconductor Corporation  
2900 Semiconductor Drive  
P.O. Box 58090  
Santa Clara, CA 95052-8090  
Point of contact: 333 Western Avenue  
South Portland, ME 04106

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